## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | NITIALS | ID NO. | DATE     |
|---------------------------|---------|--------|----------|
| FEE DETERMINATION         |         |        |          |
| O.I.P.E. CLASSIFIER       |         | 15     | 7/01     |
| FORMALITY REVIEW          | Y 1543  | 71750  | 2 7/3 01 |
| RESPONSE FORMALITY REVIEW | MN      | 774    | 6/4/01   |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | l | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 |              |

|               |          |          |          |          | ٠  | -  |          | ••••   | ••••     | •••••           | •••••    | ••••• | ••••     | Hest     | ricte  | ea         |   |          |  | U            | •••  |  | ••••     | •••••  | ••••• | •••••    | C          | bje            | cte  | d  |   |
|---------------|----------|----------|----------|----------|----|--|----------|--|----------|-----------------|----------|-------|----------|----------|--------|------------|---|----------|--|--------------|--|--|----------|--|-------|----------|------------|----------------|--|--|---|
| Cla           | aim      | L,       |          | Τ.       |    | Da   | ate      | · · ·  |          |                 |          | ]     | CI       | aim      |        | _          |   |          | Da   | ate          | _  |  |          |  | ]     | CI       | aim        | Τ              |  |  | - |
| Final         | Driginal | 8723/02  | 20 cz/)  | 7/31/03  |    |  |          |  |          |                 |          |       | Final    | Original |        |            |   |          |  |              |  |  |          |  |       | Final    | Original   |                |  |  | _ |
|               | (1       | Ŀ        | <u>\</u> | <u></u>  | L  |  | L        | L  |          |                 |          |       |          | 51       |        | П          |   |          | Т  | T            | T  | T  | T        | T  |       | Г        | 10         | ı              | $\top$   | T  | _ |
|               | B        | N        | Ш        |          | L  |  |          |  |          |                 |          |       |          | 52       |        | П          |   |          | Т  | T            | Τ  |  | T        | 1  | 1     | Г        | 102        | <u>1</u>       | $\top$   | T  | _ |
| ï             | 3        | 1        |          | 1        | 1  |  |          |  | Т        |                 |          |       |          | 53       |        | П          |   |          | Т  | Т            | 1  | T  | T        |  | ٦     |          | 100        | ┰              | $\top$   | $\top$   | _ |
|               | 4        |          | П        |          | Ι  |  | T        | Ι  | T        |                 | Τ        |       |          | 54       |        | T          |   | T        | T  | $^{\dagger}$ | 1  | 1  | T        | +  | 1     | -        | 104        | ╁              | +  | +  | - |
| 1             | 5        |          | Ш        |          | Γ  | Т  |          |  | Т        | Τ               |          | 1     |          | 55       |        | $\neg$     | _ |          | Т  | T            | T  | T  | $\top$   | Τ  | 1     |          | 105        | ;              | T  |  | - |
|               | 6        |          | П        | П        | Γ  | Т  | Τ        |  | Т        | T               | Г        | 1     | Г        | 56       | T      | $\exists$  |   |          |  |              | T  | 1  | T        | 1  | 1     |          | 106        | ;              | t  | +  | - |
|               | 7        |          | Ш        | Ш        |    |  |          |  | Т        | П               |          | 1     | Г        | 57       |        |            |   | Г        | T  |              | T  |  | T        | T  | 1     |          | 107        | <del>,</del> — | 1  | +  | - |
|               | 8        | Ц        |          | Ш        |    |  |          |  |          |                 |          | 1     |          | 58       |        | ヿ          |   | Г        | Т  | 1            | T  | T  |          | T  | 1     |          | 108        | 十              | 1  | +  | - |
| L.            | 9        |          | П        | 1        |    |  |          |  | L        |                 |          |       |          | 59       | Т      |            |   |          |  | 1"           | Т  | $\top$   | T        | T  | 1     |          | 109        | $\vdash$       | T  | +  | - |
|               | Be       | Ц        | Ц        |          |    |  |          |  |          |                 |          |       |          | 60       |        | $\neg$     |   | Г        |  | T            | Т  | 1  | T        |  | 1     |          | 110        | $\vdash$       | $\top$   | $\top$   | - |
|               | 11       | Ц        | Ш        | 1        |    |  |          |  |          |                 | Γ        |       |          | 61       | $\neg$ |            |   |          | Τ  |              | T  | 1  | T        | 1  | 1     |          | 111        |                | $\vdash$   | 1  | - |
|               | ×        | Ц        | Ш        |          |    |  |          |  |          |                 | -        | 1     |          | 62       |        | $\neg$     |   |          | Г  | 1            | T  | T  | T        | T  | 1     |          | 112        |                | <del>                                     </del> | 1  |   |
|               | 13       | П        |          | V        |    | L  |          | Γ  |          |                 | Π        | 1     |          | 63       |        |            |   |          | Т  | 1            |  | T  |          | T  | 1     |          | 113        | $\vdash$       | 1  | †  |   |
|               | 14       |          |          |          |    |  |          |  | Τ        |                 | Г        | 1     |          | 64       |        | П          |   |          |  |              |  | 1  | T        |  | 1     |          | 114        |                |  | +  | - |
|               | 15       | Ц        |          | П        |    |  | Т        | Т  | Т        | П               |          |       |          | 65       |        | T          |   |          | T  |              | T  | T  | 1        | $\top$   | 1     |          | 115        |                | T  | +  | - |
|               | 16       |          | П        | П        |    |  |          | L  | Т        |                 |          |       |          | 66       |        | T          |   |          | T  | T            |  |  | 1        | $\top$   | 1     |          | 116        |                | $\vdash$   | $\top$   | - |
|               | 17       |          | П        | Ш        |    |  |          | Ι  |          |                 |          | ]     |          | 67       | Т      | T          |   |          | Τ  | 1            | 1  | Т  | T        |  | 1     |          | 117        | t-             | T  | †  | _ |
|               | 18       |          |          | П        |    |  |          |  | T        |                 |          | 1     |          | 68       |        |            |   |          | 1  | Т            | 1  | Т  | T        |  | 1     |          | 118        | _              | $\vdash$   | T  | _ |
| Ġ.            | 19       |          | 1        | 之        |    |  |          | Г  | Π        | Τ               |          | 1     | Г        | 69       |        | T          |   |          | T  | Τ            |  | Т  |          |  | 1     |          | 119        | _              | $\vdash$   | T  | _ |
|               | 4        | Т        |          |          | Γ  | Τ  |          | П  | Т        |                 |          | 1     |          | 70       | $\neg$ | $\exists$  |   |          |  | T            | 1  | 1  | T        | T  | 1     |          | 120        |                | $\vdash$   | +  | - |
| ·*;           | 41       | 1        | Г        |          |    |  |          | T  | T        | 1               | H        | i     |          | 71       | 十      | +          | - | _        | $\vdash$   | 1-           | +-   | -  | +        | ╁  | 1     | -        | 121        | _              | $\vdash$   | ╁  | - |
|               | 2        | 7        |          |          | T  | 1-   | T        |  |          | ┢               | -        |       |          | 72       | +      | $\top$     |   |          | -  | +            | $\vdash$   | t  | +        | ╁  | 1     | $\vdash$ | 122        | <del> </del>   | ╁  | +  | - |
|               | 43       | T        |          | _        | Τ  |  |          | T  | 1        | Т               | _        | 1     |          | 73       | _      | +          |   | _        | <del>                                     </del> | +            | $\vdash$   | -  | $\vdash$ | $\vdash$   | 1     | $\vdash$ | 123        | -              | ├  | $\vdash$   | 1 |
|               | 44       | 7        | <b>V</b> |          |    |  | T        | T  |          |                 |          |       |          | 74       | 1      | $\dagger$  |   |          | <del> </del>                                     | $t^-$        | 1  | -  | $\vdash$ | ╆┈   | 1     | $\vdash$ | 124        |                | $\vdash$   | ╁  | - |
|               | 24<br>25 | T        | П        |          | 1  |  | T        |  | 1        |                 | Т        | İ     |          | 75       | $\top$ | 7          |   | _        | 1  |              | 1  | <del> </del>                                     | 一        | <del>                                     </del> | 1     |          | 125        | H              | ┢╾   | ╁  | 1 |
|               | 26       | 1        |          |          |    | T  | T        | <del>                                     </del> | 1        | T               | -        | 1     |          | 76       | $^{+}$ | +          | 7 | _        | -  | <u> </u>     | -  | H  | ┢        | 1-   | 1     | $\vdash$ | 126        | $\vdash$       | -  | ╁┈   | - |
|               | 27       | 1        |          |          | T  | † -  | T        | _  | 1        |                 |          |       | <b>—</b> | 77       | 十      | +          | T | _        | $\vdash$   |              | 1  | <del>                                     </del> | +        | -  | 1     |          | 127        | H              |  | $\vdash$   | 1 |
|               | 28       | ÷        | 7        |          |    | Т  |          |  | $\vdash$ |                 |          |       |          | 78       | 7      | +          | 7 | _        | -  | ✝            | H  | 1  | H        | <del>  -  </del>                                 | 1     |          | 128        | H              |  | ╆  |   |
|               | 29       |          |          | ~        | Г  |  |          |  | 1        | T               |          |       | П        | 79       |        | +          | 7 |          | _  | T            | t  | 1-   | H        | -  | 1     |          | 129        | Н              | _  | +-   |   |
|               | 30       |          |          |          |    | T  | T        |  |          | П               |          |       | Н        | 80       | $\top$ | $\uparrow$ | 7 |          | <u> </u>   | 1            |  | -  | H        | -  | i     |          | 130        | Н              |  | <del> </del>                                       | 1 |
|               | 31       |          |          | T        |    | Г  | <u> </u> | T  | Г        |                 |          |       | П        | 81       | $\top$ | $\top$     | 7 |          |  | 1-           |  | t  | t        | Η-   | 1     | $\vdash$ | 131        | $\vdash$       | $\vdash$   | ╁─   | 1 |
|               | 32       |          |          | $\top$   | _  |  | $\vdash$ |  |          |                 |          |       | П        | 82       | $\top$ | +          | 1 | _        | $\vdash$   | t-           | $\vdash$   | ├  |          | $\vdash$   | 1     |          | 132        | $\vdash$       | _  | -  | t |
| $\neg$        | 33       |          |          |          |    |  |          |  |          |                 |          |       | П        | 83       | +      | T          | 7 |          |  | †            | $\vdash$   | $\vdash$   | -        | H  | 1     | $\vdash$ | 133        |                |  | ├  | ł |
|               | 34       |          |          | Ŧ        | Γ  | Ì  |          |  |          | П               |          |       | П        | 84       | +      | t          | 7 |          | $\vdash$   | 1            | $\vdash$   | $\vdash$   | H        |  | 1     |          | 134        | $\dashv$       | <u> </u>   | -  | ł |
|               | 35       |          |          |          | Γ  | Γ  | Г        | Ι_   | t        | $\Box$          | _        |       | П        | 85       | $\top$ | Ť          | 1 |          | Г  | <u> </u>     |  | H  | $\vdash$ | <u> </u>   | 1     | -        | 135        | $\dashv$       | $\vdash$   | <del>  -                                    </del> | t |
|               | 36       |          |          |          |    | İ  | Г        |  | П        | П               | $\neg$   |       | $\Box$   | 86       | +      | +          | 7 |          | Н  | $\vdash$     | <del>                                     </del> | Н  | -        |  | 1     |          | 136        | _              | $\neg$   | $\vdash$   | + |
|               | 37       |          |          |          |    |  |          | Γ  |          | П               | ╗        |       |          | 87       | +      | $\dagger$  | 1 | _        |  | Т            | _  |  | r        | <del>                                     </del> | 1     |          | 137        | -              | $\dashv$   | $\vdash$   | t |
| :             | 38       |          | $\neg$   |          |    |  | П        | <u> </u>   | Ī        | П               |          |       |          | 88       | 1      | +          | 7 | -        |  | $\vdash$     | $\vdash$   | $\vdash$   | 1        | $\vdash$   | 1     | $\vdash$ | 138        | -              | $\dashv$   | $\vdash$   | t |
| _ ]:          | 39       |          | 一        |          | Γ. | Π  |          | _  |          | П               |          |       | H        | 89       | $\top$ | $\dagger$  | 7 |          |  |              |  |  | <u> </u> |  | 1     | $\vdash$ | 139        | -              | -  | $\vdash$   | t |
| Ţ.            | 40       |          | ヿ        |          | Г  | Т  |          |  |          | П               |          |       |          | 90       | +      | $\top$     | 7 |          |  |              | _  |  | $\vdash$ |  |       | —        | 140        | -              | $\dashv$   | $\vdash$   | ł |
| 一             | 41       |          | $\dashv$ |          |    | t  |          | Ι-   | $\vdash$ | H               | $\dashv$ |       | $\vdash$ | 91       | +      | +          | + |          | _  | <u> </u>     | -  | H  | $\vdash$ | -  |       |          | 141        | $\dashv$       | $\dashv$   | $\vdash$   | ł |
| _             | 42       | $\dashv$ | 寸        | -        | -  |  | _        | $\vdash$   | 1        | Н               | $\dashv$ |       |          | 92       | +      | +          | + | -        | -  |              | Н  | -  | -        | $\vdash$   |       |          | 142        | $\dashv$       | $\dashv$   | $\vdash$   | ł |
|               | 43       | 7        | 寸        | ٦        | Н  | <del>                                     </del> | $\vdash$ | -  |          | -               | $\dashv$ |       |          | 93       | +      | +          | + |          |  | $\vdash$     |  | _  | H        | -  | ŀ     | -        | 143        | $\dashv$       | $\dashv$   | -  | ł |
| $\overline{}$ | 44       | 7        |          | _        | Н  | $\vdash$   | Н        | -  | $\vdash$ | $\vdash$        | $\dashv$ |       | _        | 94       | +      | +          | + | -        |  | $\vdash$     | -  |  |          | -  |       | ↦        |            | $\dashv$       | $\dashv$   | -  | ł |
|               | 45       | $\dashv$ |          | $\dashv$ |    | -  | $\vdash$ | $\vdash$   | -        | H               |          |       |          | 95       | +      | +          | + |          | -  | $\vdash$     |  |  |          | <u> </u>   | ,     | -        | 144<br>145 | -              |  | $\vdash$   | ł |
| -             | 46       | 7        | +        | -        | -  |  | Н        | Н  |          | $\vdash \vdash$ |          |       |          | 96       | +      | +          | + | -        |  | ┝╌┤          | $\vdash$   |  | _        |  |       |          | 46         | $\dashv$       | $\dashv$   | $\vdash$   | ŀ |
|               | 47       | ┪        | $\dashv$ | $\dashv$ | _  |  | Н        | Н  |          | H               | $\dashv$ |       |          | 97       | +      | +          | + | $\dashv$ |  | $\vdash$     | $\dashv$   | -  | -        |  |       |          | 46         | $\dashv$       | $\dashv$   | _  | ŀ |
|               | 48       | ┪        | -        | $\neg$   | -  | -  | $\vdash$ | -  | $\vdash$ | $\vdash$        | ᅱ        |       |          | 98       | +-     | +          | + | $\dashv$ | _  | H            |  | _  |          | _  |       |          | 48         | 4              |  | $\dashv$   | ŀ |
| _             | 49       | $\dashv$ | $\dashv$ | -        | -  |  | H        | -  | $\vdash$ |                 | $\dashv$ |       |          | 99       | +      | +          | + | $\dashv$ | $\dashv$   | Н            | $\vdash$   | _  | _        |  |       | -        |            | $\dashv$       |  | $\dashv$   | F |
|               | 50       | -        | +        | $\dashv$ | _  | -  | Н        | Н  | Η-       | -               | $\dashv$ | 1     |          | 100      | +      | +          | + | $\dashv$ | -  |              | $\dashv$   | _  | -        |  |       |          | 50         | $\dashv$       | $\dashv$   | $\dashv$   | ŀ |
|               |          | -        |          |          |    |  |          |  |          | . 1             | - 1      | 1     | . 1'     |          |        | - 1        | • | - 1      |  |              | - 1  | - 1  |          |  |       | . 11     | -          | - 1            | - 1  |  |   |

|   | CI            | aim           |           |          |           |   |   | D            | ate      | _ |          |          |  |              | _ |
|---|---------------|---------------|-----------|----------|-----------|---|---|--------------|----------|---|----------|----------|--|--------------|---|
| 101   |               | 1             |           |          |           |   |   |              |          |   |          |          | T  |              | _ |
| 102   | F             | 101           | -         | H        | +         | 1 |   | +            | +        | _ | ┝        | ╁        | +  | +            | - |
| 103   | $\vdash$      |               | Н         | t        | $^{+}$    | + |   | +            | +        |   | -        | +-       | +  | +            | - |
| 104   | -             | -             |           | 1        | $\dagger$ | 7 |   | +            | +        | _ | -        | +        | +  | +            | - |
| 106   | -             | 1             | -         | $\vdash$ | +         | 1 | _ | ╁            | $^{+}$   | - |          | ┿        | +  | +            | - |
| 107   |               |               |           | ┢        | +         | 7 | _ | +            | +        | _ |          | †-       | ╈  | +            | - |
| 108   |               | 106           |           | T        | T         | 1 |   | T            | †        |   |          | †        | T  | +            | _ |
| 109   |               | 107           |           |          | T         | 7 |   | T.           | T        |   | Г        | T        | 1  | T            | _ |
| 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148   |               | 108           |           |          | T         | 1 |   | T            | T        |   |          | Γ        | T  | T            | _ |
| 111   |               | 109           |           |          | L         |   |   |              |          |   |          |          | Ι  |              | _ |
| 112   |               |               |           | L        |           |   |   | L            | Ŀ        |   |          |          | Ι  | T            |   |
| 113   |               |               |           | L        | L         | 1 |   | L            |          |   |          |          | L  | I            | _ |
| 114   | L             |               |           | L        | 1         | ╛ |   | _            | $\perp$  |   |          | L        | L  |              |   |
| 115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149 | _             | -             |           | L        | Ļ         | 4 |   | ┺            | 1        |   |          |          | 1  | $\perp$      |   |
| 116   | <u> </u>      |               |           | _        | <u> </u>  | 1 |   | L            | ┸        |   |          | L        | $\perp$                                      | ┸            | _ |
| 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148   | <u> </u>      | _             |           | L        | 1         | 4 |   | Ļ            | 1        |   |          | L        | 4_   | ╀            |   |
| 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 134 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148   | ⊢             |               |           | L        | +         | 4 |   | _            | $\perp$  | _ | _        | ╄-       | $\downarrow$                                 | $\perp$      | _ |
| 119   | -             |               |           | _        | ╀         | 4 |   | ╄            | ╀        | _ |          | ╀-       | -  | ╀            | _ |
| 120   | <u> </u>      |               |           | <u> </u> | +         | + | _ | -            | ╀        | _ | _        | ╀        | ╀  | +            | _ |
| 121   | -             | $\vdash$      |           | -        | ╀         | + |   | ┝            | +        | 4 |          | $\vdash$ | $\perp$                                      | $\perp$      | _ |
| 122   |               |               | _         | L        | 1         | 4 |   | L            | ╀        | 4 |          | L        | ↓_   | $\perp$      |   |
| 123   |               |               |           | _        | -         | 4 |   | L            | ╀        | 4 | _        | _        | ├-   | +            | _ |
| 124   | <u> </u>      |               |           |          | ╀         | + |   | -            | ╀        | 4 |          | L        |  | ╄            | _ |
| 125   |               |               | _         |          | ╀         | + | - | ⊢            | ╀        | 4 |          | ┝        | -  | ╀            | _ |
| 126   | -             |               | -         |          | ⊦         | + | - | ├            | ╀        | + |          | ⊢        | ╀  | 1            | _ |
| 127   |               | $\rightarrow$ | -         |          | ╁╌        | + | _ | ┝            | +        | + |          | ١.       | ╀  | ╀            | - |
| 128   |               |               |           |          | $\vdash$  | + | - | $\vdash$     | +        | + |          | H        | -  | ╁            | - |
| 129   |               |               | $\dashv$  |          | ╁         | + |   | H            | ╁        | + |          | ┝        | +-   | ╁            | - |
| 131   |               |               |           |          | $\vdash$  | † | _ | <del> </del> | †        | † |          | -        | $\vdash$                                     | 1            | - |
| 132   |               | 130           | ┪         |          | 1         | † | _ |              | T        | + |          |          | 十  | t            | - |
| 133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |               | 131           | $\exists$ |          | 1         | t |   | -            | T        | 1 |          |          |  | $^{\dagger}$ | - |
| 134   |               | 132           | ┪         |          |           | Ť |   |              | T        | 7 |          |          | T  | <u> </u>     | _ |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>144<br>145<br>146<br>147<br>148   |               |               | ٦         |          | Γ         | Ī |   |              | Γ        | 7 |          |          | Γ  | Г            | _ |
| 136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>144<br>145<br>146<br>147<br>148  |               | 134           |           |          |           | Ι |   |              | Γ        | T |          |          |  | Γ            | _ |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |               |               |           |          | L         | I |   |              |          | Ι |          |          |  |              | _ |
| 138   |               | _             |           |          | L         | L | _ |              |          | 1 | -        |          |  |              |   |
| 139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  | _             |               | 4         |          | L         | L |   |              | L        | 1 |          | _        | <u>.                                    </u> | L            |   |
| 140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   | $\overline{}$ | _             | -         |          | L         | Ļ | _ |              | L        | 1 |          |          | ÷ ·  | L            | _ |
| 141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |               | _             | 4         |          | _         | ╀ | _ | _            | L        | 4 | _        |          | <u> </u>                                     | ļ            | 4 |
| 142<br>143<br>144<br>145<br>146<br>147<br>148   |               | $\rightarrow$ | 4         |          | _         | L |   |              | L        | 4 | _        |          | Ļ.   | L            | 4 |
| 143<br>144<br>145<br>146<br>147<br>148  |               |               | 4         |          | <u> </u>  | 1 | _ |              | _        | 1 | _        |          | L  | L            | 4 |
| 144<br>145<br>146<br>147<br>148   |               |               | 4         |          | <u> </u>  | ╀ | 4 |              | $\vdash$ | 4 | _        | _        | _  | <u> </u>     | 4 |
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If more than 150 claims or 10 actions staple additional sheet here

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